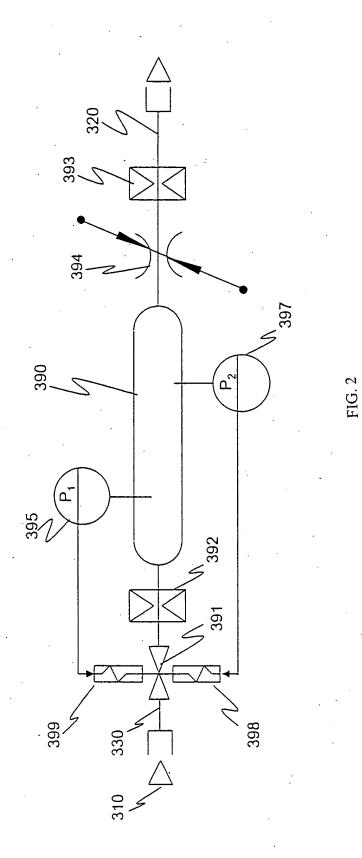
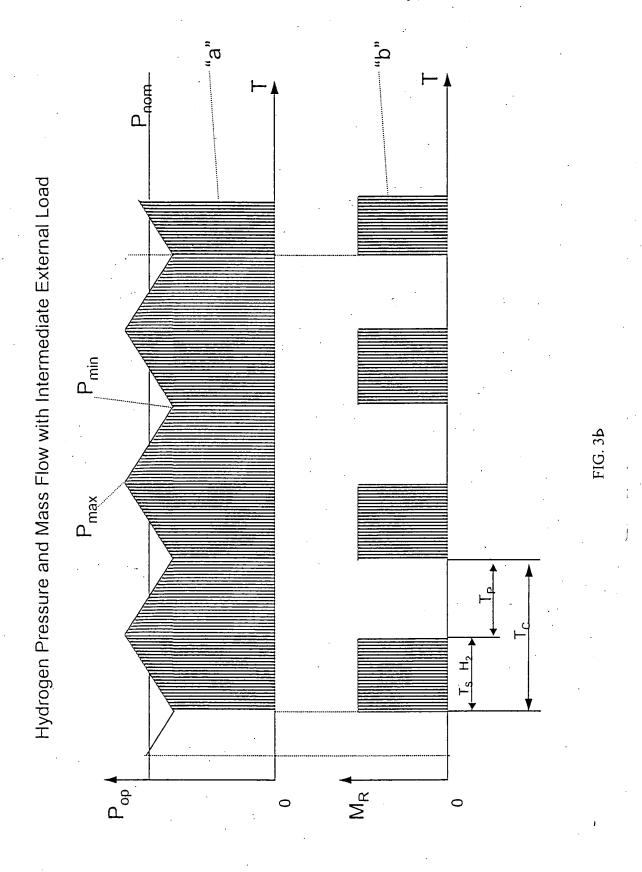


Fig. 1

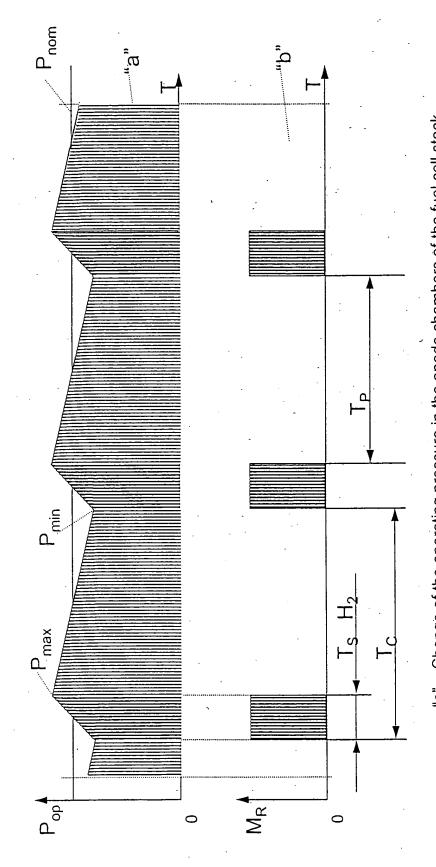


 $^{\prime}$ P nom Pmin P_{max} $T_S H_2$ Pop M_R 0

Hydrogen Pressure and Mass Flow with Maximum External Load



Hydrogen Pressure and Mass Flow with Minimal External Load



"a" - Change of the operating pressure in the anode chambers of the fuel cell stack "b" - Mass gas flow in the gas re-circulation loop

Pop - Operating Pressure
Pop - Maximum operating pressure
Pop - Minimum operating pressure
Pop - Nominal operating pressure
T - Time

- Mass re-circulation flow - H₂ supply time - Cycle time - Pause time

FIG. 3c